(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

(10) International Publication Number WO 2005/037714 A1

- (51) International Patent Classification⁷: C01F 7/74, C01G 49/14, C02F 1/52, 11/00, B01D 61/00
- (21) International Application Number:

PCT/SE2004/001497

- (22) International Filing Date: 18 October 2004 (18.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0302754-7 17 October 2003 (17.10.2003) SE 0400450-3 26 February 2004 (26.02.2004) SE 0401887-5 19 July 2004 (19.07.2004) SE

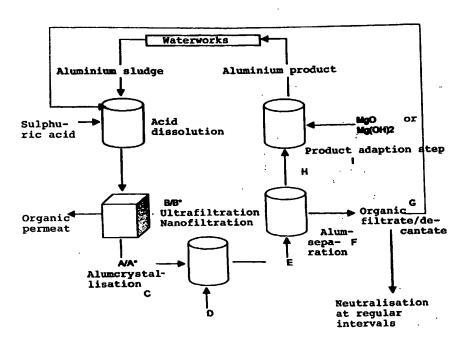
- (71) Applicant (for all designated States except US): FER-ALCO AB [SE/SE]; Industrigatan 125, S-252 32 Helsingborg (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ULMERT, Hans,

David [SE/SE]; Griffelvägen 9, S-224 64 Lund (SE). JÄFVERSTRÖM, Stefan [SE/SE]; Södra Promenaden 113, S-602 34 Norrköping (SE). STENDAHL, Kjell [SE/SE]; Stejlebacken 4, S-255 91 Helsingborg (SE).

- (74) Agent: STRÖM & GULLIKSSON IPC AB; P.O. Box 4188, S-203 13 Malmö (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD FOR TREATMENT OF SLUDGE



(57) Abstract: Method for treatment of sludge, which includes precipitated aluminium and/or iron hydroxide, whereby the sludge first is added acid and thereafter is subjected to at least one membrane filtration process, whereby a permeate or a concentrate is obtained, including trivalent aluminium and/or iron ions in solution. The aluminium and/or iron ions in the permeate, or concentrate, are crystallised (salting out) in a precipitation.



WO 2005/037714 A1



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report